

GenCore version 5.1.4.p5.4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 09:00:41 ; Search time 31.6842 Seconds
(without alignments)
340.942 Million cell updates/sec

Title: US-10-032-658-11

Perfect score: 664
Sequence: 1 MAFKTCGFSSKMLVIAIVM.....DSTNCKRATACSTGCGH 112

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 362588 seqs, 96450795 residues

Total number of hits satisfying chosen parameters: 362588

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA:*

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14: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB.pep:*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	664	100.0	112 9	US-10-032-658-11 Sequence 11, App1
2	603	90.8	124 9	US-10-032-658-17 Sequence 17, App1
3	599	90.2	112 9	US-10-032-658-13 Sequence 13, App1
4	599	90.2	124 9	US-10-032-658-19 Sequence 19, App1
5	487	73.3	148 9	US-10-032-658-15 Sequence 15, App1
6	184	27.7	2164 9	US-10-123-155-151 Sequence 151, App
7	182.5	27.5	2380 9	US-10-184-644-597 Sequence 597, App
8	182.5	27.5	2380 9	US-10-184-644-597 Sequence 597, App
9	180	27.1	756 9	US-10-123-155-171 Sequence 171, App
10	178.5	26.9	3819 9	US-10-123-155-171 Sequence 171, App
11	177	26.7	2690 9	US-10-184-644-405 Sequence 405, App
12	177	26.7	2690 9	US-10-184-644-405 Sequence 405, App
13	176	26.5	702 9	US-10-123-155-193 Sequence 35, App1
14	174.5	26.3	1675 9	US-10-123-155-135 Sequence 135, App
15	174.5	26.3	2300 9	US-10-184-644-115 Sequence 115, App
16	174.5	26.3	2300 9	US-10-184-644-115 Sequence 115, App
17	173	26.1	1024 9	US-10-184-644-543 Sequence 543, App
18	173	26.1	1024 9	US-10-184-644-543 Sequence 543, App
19	172.5	26.0	1997 9	US-10-184-644-529 Sequence 529, App

20	172.5	26.0	1997 9	US-10-184-634-529 Sequence 529, App
21	172	25.9	3089 9	US-10-184-644-61 Sequence 61, App1
22	172	25.9	3089 9	US-10-184-634-61 Sequence 61, App1
23	171.5	25.8	1901 9	US-10-184-644-47 Sequence 47, App1
24	171.5	25.8	1901 9	US-10-184-644-47 Sequence 47, App1
25	171	25.8	1073 9	US-10-184-634-305 Sequence 305, App
26	171	25.8	1073 9	US-10-184-634-305 Sequence 305, App
27	171	25.8	1904 9	US-10-123-155-99 Sequence 99, App1
28	171	25.8	3046 9	US-09-759-1308-441 Sequence 441, App1
29	170.5	25.7	972 9	US-10-184-634-443 Sequence 443, App
30	170.5	25.7	972 9	US-10-184-634-443 Sequence 443, App
31	170.5	25.7	2401 9	US-10-184-644-205 Sequence 205, App
32	170.5	25.7	2401 9	US-10-184-644-205 Sequence 205, App
33	170	25.6	1820 9	US-10-184-644-497 Sequence 497, App
34	170	25.6	1820 9	US-10-184-644-497 Sequence 497, App
35	170	25.6	2340 9	US-10-184-634-333 Sequence 333, App
36	170	25.6	2340 9	US-10-184-634-333 Sequence 333, App
37	169.5	25.5	1567 9	US-10-123-155-215 Sequence 215, App
38	169.5	25.5	3449 9	US-10-123-155-293 Sequence 293, App
39	169	25.5	1200 10	US-09-826-508-3 Sequence 3, App1
40	169	25.5	2476 9	US-10-184-644-585 Sequence 585, App1
41	169	25.5	2476 9	US-10-184-634-585 Sequence 585, App
42	169	25.5	3296 9	US-10-123-155-369 Sequence 369, App
43	168.5	25.4	1319 9	US-10-123-155-241 Sequence 241, App
44	168	25.3	1871 9	US-10-184-644-301 Sequence 301, App
45	168	25.3	1871 9	US-10-184-634-301 Sequence 301, App

ALIGNMENTS

RESULT 1
US-10-032-658-11
Sequence 11, Application US/10032658
Patent No. US20020165383A1
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
Liou, Yih-Cherng
Walker, Virginia K.
Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/032,658
FILING DATE: 02-Jan-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016552-00210005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear


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      MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: Patentin Release #1.0, Version #1.30
      CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/10/032,658
      FILING DATE: 02-Jan-2002
      CLASSIFICATION: <Unknown>
      PRIOR APPLICATION DATA:
      APPLICATION NUMBER: US/08/882,907
      FILING DATE: 26-JUN-1997
      ATTORNEY/AGENT INFORMATION:
      NAME: Weber, Kenneth A.
      REGISTRATION NUMBER: 31,677
      REFERENCE/DOCKET NUMBER: 016252-002100US
      TELECOMMUNICATION INFORMATION:
      TELEPHONE: (415) 576-0200
      TELEFAX: (415) 576-0300
      INFORMATION FOR SEQ ID NO: 15:
      SEQUENCE CHARACTERISTICS:
      LENGTH: 148 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
      MOLECULE TYPE: protein
      SEQUENCE DESCRIPTION: SEQ ID NO: 15:
      US-10-032-658-15

Query Match          73.33; Score 487; DB 9; Length 148;
Best Local Similarity 60.88; Pred. No. 1,4e-31;
Matches 90; Conservative 5; Mismatches 17; Indels 36; Gaps

QY 1 MAAKTCGFSKKMLVAVIYVIMCLTECYCHCTGAGDCTGCTDCTGCGCNGPNAHTCTDSKN 60
DB 1 MSRKISTFPIKMLIIAVIYVIMCLGNEYMCQGTGAADTSGTAACGTCGNGCPNAHTCTDSKN 60
QY 61 CVAATCTGCTGTCN-----TARTCTNSKCFE----- 87
DB 61 CVAATCTGCTGTCNCAATCTGNSKGLBATYCTGTHCHRAATCTGNSKCFEATYCTGSSN 120
QY 88 ---AKTCTDSTNCYKATCTGNSGCPGH 112
DB 121 CYTATCTGTCNCAATCTGNSGCPGH 148

RESULT 6
US-10-123-155-151
: Sequence 151, Application US/10123155
: Publication No. US20030068794A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Beresini, Maureen
: APPLICANT: Deforge, Laura
: APPLICANT: Desnoyers, Luc
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Sherwood, Steven
: APPLICANT: Smith, Victoria
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Matanabe, Colin K
: APPLICANT: Wood, William
: APPLICANT: Zhang, Zhenli
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3330R1C30
: CURRENT APPLICATION NUMBER: US/10/123,155
: CURRENT FILING DATE: 2002-04-15

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; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 151
; LENGTH: 2164
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-151

Query Match 27.7%; Score 184; DB 9; Length 2164;
Best Local Similarity 38.0%; Pred. No. 6, 1e-07;
Matches 38; Conservative 4; Mismatches 42; Indels 16; Gaps 4;

QY 21 CLCTEYCHCTGADCT-SCDTACTGCGNCPNAHTCTD-----DSKNCYAACTGCTG 71
DB 749 CCCAACCCACTGAGTCCCA-ACAGCAGAGTCCCGCAGAGAGAGTCCAGCTGTGAC 807
QY 72 KCMYARTCTNSKDFEAKTCTDSTNCKYKATCTNSTGCG 111
DB 808 -CACACAC-----CCACTTCATGCGCACAGCTGAGCCAG 841

RESULT 7
US-10-184-644-597
; Sequence 597, Application US/10184644
; Publication No. US20030044930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Matanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT APPLICATION NUMBER: US/10/184,644
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 597
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-597

Query Match 27.5%; Score 182.5; DB 9; Length 2380;
Best Local Similarity 34.3%; Pred. No. 8, 7e-07;
Matches 37; Conservative 2; Mismatches 52; Indels 17; Gaps 2;

QY 21 CLCTEYCHCTGADCT-SCDTACTGCGNCPNAHTCTD-----DSKNCYAACTG----- 69
DB 326 CACTGCTCTCCGGGCGCTCCGCCCTGCGAGACAGATACATCTGCTGCTGCGG 385
QY 70 -----STKNTARTCTNSKDFEAKTCTDSTNCKYKATCTNSTGCG 111
DB 386 GACATGCTGCTGCTCTCCGGGCGCTGCTGCGGCTTACGACCTGCG 433

RESULT 8
US-10-184-634-597
; Sequence 597, Application US/10184634
; Publication No. US20030068684A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Matanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C217
; CURRENT APPLICATION NUMBER: US/10/184,634
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 597
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-634-597

Query Match 27.5%; Score 182.5; DB 9; Length 2380;
Best Local Similarity 34.3%; Pred. No. 8, 7e-07;
Matches 37; Conservative 2; Mismatches 52; Indels 17; Gaps 2;

QY 21 CLCTEYCHCTGADCT-SCDTACTGCGNCPNAHTCTD-----DSKNCYAACTG----- 69
DB 326 CACTGCTCTCCGGGCGCTCCGCCCTGCGAGACAGTACATCTGCTGCTGCGG 385
QY 70 -----STKNTARTCTNSKDFEAKTCTDSTNCKYKATCTNSTGCG 111
DB 386 GACATGCTGCTGCTCTCCGGGCGCTGCTGCGGCTTACGACCTGCG 433

RESULT 9
US-10-123-155-171
; Sequence 171, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Matanabe, Colin K.
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C30
; CURRENT APPLICATION NUMBER: US/10/123,155
; CURRENT FILING DATE: 2002-04-15
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 171
; LENGTH: 756
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-171

Query Match 27.1%; Score 180; DB 9; Length 756;
Best Local Similarity 44.3%; Pred. No. 5, 5e-07;
Matches 43; Conservative 4; Mismatches 38; Indels 12; Gaps 7;
QY 21 CLCTEYCHCTGADCT-SCDT--ACTGCGNC--PNAHTCTD-----DSKNCYAACTGCTGCTGCT 75

Db 65 CCCTCCGCCCTGG--CTGGCTGGCCCTGCTGCTGAGGCTTCAGCCCTGAGCTGTT-CTT 121
QY 76 ARTCTNSKDCFEAKTCFD---STNCKYKATCTNSG 109
Db 122 TCTCCTTGCGACGCTTCTTCCCTTCTTCT-CTGGTGC 157

RESULT 10
US-10-123-155-405
; Sequence 405, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C30
CURRENT APPLICATION NUMBER: US/10/123,155
CURRENT FILING DATE: 2002-04-15
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 405
LENGTH: 3819
TYPE: DNA
ORGANISM: Homo Sapien
US-10-123-155-405

Query Match 26.9%; Score 178.5; DB 9; Length 3819;
Best Local Similarity 36.2%; Pred. No. 2,6e-06;
Matches 42; Conservative 1; Mismatches 42; Indels 31; Gaps 6;
QY 23 CTCTCYC-----HCTGADCTCTGCTGCG--GNCNNAHCT---DSKNVKAATCT-- 68
Db 2094 CTCTCCCTTCTGCTCTG--CAGCTTCAGCTTCTGCTCTTACCTTTTCAGCATCATC 2151
QY 69 -----GSTYKNTARTCTNSKDCFEAKTCYDSTNCKYKATCTNSGCPG 111
Db 2152 ACTCTCTTCCAGGCTTCATCATCTTCATCTGCTGACTGCTGC--ATCGGCTGAG 2205

RESULT 11
US-10-184-644-35
; Sequence 35, Application US/10184644
; Publication No. US20030044930A1
; GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C30
CURRENT APPLICATION NUMBER: US/10/123,155
CURRENT FILING DATE: 2002-04-15
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 405
LENGTH: 3819
TYPE: DNA
ORGANISM: Homo Sapien
US-10-123-155-405

FILE REFERENCE: P3430R1C227
CURRENT APPLICATION NUMBER: US/10/184,644
CURRENT FILING DATE: 2002-06-28
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 35
LENGTH: 2690
TYPE: DNA
ORGANISM: Homo Sapien
FEATURE:
NAME/KEY: unsure
LOCATION: 2039-2065
OTHER INFORMATION: unknown base
US-10-184-644-35

Query Match 26.7%; Score 177; DB 9; Length 2690;
Best Local Similarity 35.9%; Pred. No. 2,6e-06;
Matches 42; Conservative 1; Mismatches 44; Indels 30; Gaps 5;

QY 21 CLCTECYCHCTGADCT---SCTDACTGC-----GNCNNAHCTDSKNVKAATCTNS--TGCPG 111
Db 1762 CTCTTCCCTTCCAGATCCAGCCCTCTGCTGCTGAGGCTCACTGCTCATCTTCTGGGCTTAA 1821
QY 66 -----TCTGSKNTARTCTNSKDCFEAKTCYDSTNCKYKATCTNS--TGCPG 111
Db 1822 AGTTTGTAGAGCTGCTCAAAATCT---CCAGAGCTGCTGACGCTGAGTCCAG 1874

RESULT 12
US-10-184-634-35
; Sequence 35, Application US/10184634
; Publication No. US20030068684A1
; GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C217
CURRENT APPLICATION NUMBER: US/10/184,634
CURRENT FILING DATE: 2002-06-28
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 35
LENGTH: 2690
TYPE: DNA
ORGANISM: Homo Sapien
FEATURE:
NAME/KEY: unsure
LOCATION: 2039-2065
OTHER INFORMATION: unknown base
US-10-184-634-35

Query Match 26.7%; Score 177; DB 9; Length 2690;
Best Local Similarity 35.9%; Pred. No. 2,6e-06;
Matches 42; Conservative 1; Mismatches 44; Indels 30; Gaps 5;

QY 21 CLCTECYCHCTGADCT---SCTDACTGC-----GNCNNAHCTDSKNVKAATCTNS--TGCPG 111
Db 1762 CTCTTCCCTTCCAGATCCAGCCCTCTGCTGCTGAGGCTCACTGCTCATCTTCTGGGCTTAA 1821
QY 66 -----TCTGSKNTARTCTNSKDCFEAKTCYDSTNCKYKATCTNS--TGCPG 111
Db 1822 AGTTTGTAGAGCTGCTCAAAATCT---CCAGAGCTGCTGACGCTGAGTCCAG 1874

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RESULT 13
US-10-123-155-193
; Sequence 193, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C30
; CURRENT FILING DATE: 2002-04-15
; CURRENT APPLICATION NUMBER: US/10/123,155
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 193
; LENGTH: 702
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-193

Query Match          26.5%; Score 176; DB 9; Length 702;
Best Local Similarity 32.3%; Pred. No. 1,1e-06;
Matches 41; Conservative 1; Mismatches 43; Indels 42; Gaps 5;

QY 21 CLCTEYXC--HCTGADCTSCDCTGCGCNCNPNHTCTDSKNCVKAATCTG-----67
DB 138 CCGTCGCCCTGCTGCTGTC-ACCTTCCGCTCTG---CTGGTCGACTTCTGCCCTACTG 193
QY 68 -----TGTCKNTARTCTNSKDC-----FEAKTCTDSTNCKATA 102
DB 194 GATATTTCCTGCTGCTGCTGGGGGCGCTTCGCGCTGCGCTGTGATCTCTGCCCTG 253
QY 103 CTNSTGC 109
DB 254 CTGCTGC 260

RESULT 14
US-10-123-155-135
; Sequence 135, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C30
; CURRENT FILING DATE: 2002-04-15
; CURRENT APPLICATION NUMBER: US/10/123,155
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 135
; LENGTH: 1675
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-135

Query Match          26.3%; Score 174.5; DB 9; Length 1675;
Best Local Similarity 39.4%; Pred. No. 2,8e-06;
Matches 37; Conservative 2; Mismatches 48; Indels 7; Gaps 2;

QY 21 CLCTEYXC--HCTGADCTSCDCTGCGCNCNPNHTCTDSKNCVKAATCTGSTKNTAR 77
DB 325 CCGGCGCGGCGCATGATTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 380
QY 78 TCTNSKDCFEAKTCTDSTNCKATFACNTSTGCPG 111
DB 381 TCCCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 414

RESULT 15
US-10-184-644-115
; Sequence 115, Application US/10184644
; Publication No. US2003004930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT FILING DATE: 2002-06-28
; CURRENT APPLICATION NUMBER: US/10/184,644
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 115
; LENGTH: 2300
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-115

Query Match          26.3%; Score 174.5; DB 9; Length 2300;
Best Local Similarity 39.3%; Pred. No. 3,6e-06;
Matches 42; Conservative 1; Mismatches 45; Indels 19; Gaps 5;

QY 21 CLCTEYXC--HCTGADCTSCDCTGCGCNCNPNHTCTDSKNCVKAATCTG 70
DB 1058 CCGGACCGCGAGATGTGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1117
QY 71 TKCVNARTCTNSKDCFEAKTCTDSTNCKATAC-----TNSGCPG 111
DB 1118 TACACAGACAGCTCTGCTC---TGCAGACACAGAGGTCCTGCTG 1161

Search completed: May 16, 2003, 09:19:44
Job time : 34.6842 secs
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APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C30
CURRENT APPLICATION NUMBER: US/10/123,155
CURRENT FILING DATE: 2002-04-15
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 135
LENGTH: 1675
TYPE: DNA
ORGANISM: Homo Sapien
US-10-123-155-135
```

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Query Match          26.3%; Score 174.5; DB 9; Length 1675;
Best Local Similarity 39.4%; Pred. No. 2,8e-06;
Matches 37; Conservative 2; Mismatches 48; Indels 7; Gaps 2;

QY 21 CLCTEYXC--HCTGADCTSCDCTGCGCNCNPNHTCTDSKNCVKAATCTGSTKNTAR 77
DB 325 CCGGCGCGGCGCATGATTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 380
QY 78 TCTNSKDCFEAKTCTDSTNCKATFACNTSTGCPG 111
DB 381 TCCCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 414
```

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RESULT 15
US-10-184-644-115
; Sequence 115, Application US/10184644
; Publication No. US2003004930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT FILING DATE: 2002-06-28
; CURRENT APPLICATION NUMBER: US/10/184,644
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 115
; LENGTH: 2300
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-115
```

```
Query Match          26.3%; Score 174.5; DB 9; Length 2300;
Best Local Similarity 39.3%; Pred. No. 3,6e-06;
Matches 42; Conservative 1; Mismatches 45; Indels 19; Gaps 5;

QY 21 CLCTEYXC--HCTGADCTSCDCTGCGCNCNPNHTCTDSKNCVKAATCTG 70
DB 1058 CCGGACCGCGAGATGTGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1117
QY 71 TKCVNARTCTNSKDCFEAKTCTDSTNCKATAC-----TNSGCPG 111
DB 1118 TACACAGACAGCTCTGCTC---TGCAGACACAGAGGTCCTGCTG 1161
```

Search completed: May 16, 2003, 09:19:44
Job time : 34.6842 secs

GenCore version 5.1.4.p5.4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 08:29:25 ; Search time 25.7895 Seconds
(without alignments)
127.780 Million cell updates/sec

Title: US-10-032-658-11

Perfect score: 664

Sequence: 1 MAFKTCGFSKRWLVIAIVYM.....DSTNCKRATCTNSTGCPGH 112

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 segs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents, AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep.*;
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep.*;
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep.*;
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep.*;
5: /cgn2_6/ptodata/1/1aa/PCBUS.COMB.pep.*;
6: /cgn2_6/ptodata/1/1aa/Backfilest.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	664	100.0	112	4	US-08-882-907-11
2	603	90.8	124	4	US-08-882-907-17
3	599	90.2	112	4	US-08-882-907-13
4	599	90.2	124	4	US-08-882-907-15
5	487	73.3	148	4	US-08-882-907-15
6	377.5	56.9	108	1	US-08-485-359-2
7	377.5	56.9	108	1	US-08-485-359-2
8	377.5	56.9	108	5	PCT-US96-08815-2
9	361	54.4	109	1	US-08-485-359-4
10	361	54.4	109	1	US-08-485-359-4
11	361	54.4	109	5	PCT-US96-08815-4
12	163.5	24.6	1917	4	US-09-627-650B-5
13	163.5	24.6	1917	4	US-09-627-650B-5
14	160.5	24.6	1345	4	US-09-436-063C-5
15	160.5	24.6	1345	4	US-09-436-063C-5
16	159.5	23.0	1417	3	US-08-508-761B-22
17	159.5	23.0	1417	3	US-08-508-761B-22
18	157	23.6	1128	4	US-09-627-650B-11
19	157	23.6	1128	4	US-09-627-650B-11
20	157	23.6	1652	4	US-09-627-650B-1
21	157	23.6	1652	4	US-09-627-650B-1
22	157	23.6	1652	4	US-09-436-063C-1
23	157	23.6	2508	4	US-09-627-650B-7
24	157	23.6	2508	4	US-09-436-063C-7
25	157	23.6	2544	4	US-09-627-650B-3
26	157	23.6	2601	4	US-09-436-063C-3
27	157	23.6	2601	4	US-09-627-650B-9

28	141.5	21.3	2088	4	US-09-548-372D-13	Sequence 13, Appl
29	141.5	21.3	2088	4	US-09-548-367D-13	Sequence 13, Appl
30	139	20.9	1801	4	US-08-630-915A-37	Sequence 37, Appl
31	130.5	19.7	801	1	US-07-906-349A-6	Sequence 6, Appl
32	124	18.7	24	4	US-08-882-907-4	Sequence 4, Appl
33	117	17.6	143	4	US-08-990-823-112	Sequence 112, App
34	115.5	17.4	102	3	US-08-974-022-53	Sequence 53, Appl
35	115.5	17.4	102	4	US-08-795-445A-53	Sequence 53, Appl
36	115.5	17.4	102	4	US-08-795-447A-53	Sequence 53, Appl
37	115.5	17.4	102	4	US-08-574-186-53	Sequence 53, Appl
38	115.5	17.4	102	4	US-08-795-446B-53	Sequence 53, Appl
39	114	17.2	2556	1	US-08-083-590A-20	Sequence 20, Appl
40	114	17.2	2556	3	US-08-532-384-20	Sequence 20, Appl
41	113	17.0	341	2	US-08-209-521-11	Sequence 11, Appl
42	113	17.0	2523	1	US-08-185-432-18	Sequence 18, Appl
43	113	17.0	2523	4	US-08-899-232-3	Sequence 3, Appl
44	112	16.9	2556	1	US-08-185-432-17	Sequence 17, Appl
45	112	16.9	2556	4	US-08-899-232-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-882-907-11
Sequence 11, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Llou, Yih-Cheng
APPLICANT: Walker, Virginia K.
APPLICANT: Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-882-907-11

Query Match 100.0%; Score 664; DB 4; Length 112;
Best Local Similarity 100.0%; Pred. No. 3.3e-52;
Matches 112; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MAFKTCGFSKRWLVIAIVYMCCTECYCHCTGADCTSCIDACTGGCGNCPNATCTDSKN 60
DB 1 MAFKTCGFSKRWLVIAIVYMCCTECYCHCTGADCTSCIDACTGGCGNCPNATCTDSKN 60

QY 61 CVKATCTGSKNTARTCTNSKDCFEAKTCTDSTNCKYKATCTNSGCPGH 112
|||||
Db 61 CVKATCTGSKNTARTCTNSKDCFEAKTCTDSTNCKYKATCTNSGCPGH 112

RESULT 2

US-08-882-907-17
; Sequence 17, Application US/08882907
; Patent No. 6392024
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cheng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.
; TITLE OF INVENTION: Tenobrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-002100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-882-907-17

Query Match 90.8%; Score 603; DB 4; Length 124;
Best Local Similarity 83.9%; Pred. No. 8,9e-47;

Matches 104; Conservative 2; Mismatches 6; Indels 12; Gaps 1;

QY 1 MAFKTCGFSKRWLVIAIVMCLCTECYCHCTGADCTSDTACTGCGNCPNAHTCTDSK- 59
|||||
Db 1 MAFKTCGFSKRWLVIAIVMCLCTECYCHCTGADCTSDTACTGCGNCPNAHTCTDSK- 60

QY 60 -----NCYKATCTGSKNTARTCTNSKDCFEAKTCTDSTNCKYKATCTNSG 108
|||||
Db 61 CVRAETCTDSENCYKATCTGSRNCNTAMCTNSKDCFEAKTCTDSTNCKYKATCTNSG 120

QY 109 CPGH 112
|||||
Db 121 CPGH 124

RESULT 3

US-08-882-907-13
; Sequence 13, Application US/08882907
; Patent No. 6392024
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cheng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.

; TITLE OF INVENTION: Tenobrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-002100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 112 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-882-907-13

Query Match 90.2%; Score 599; DB 4; Length 112;
Best Local Similarity 90.2%; Pred. No. 1,8e-46;

Matches 101; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAFKTCGFSKRWLVIAIVMCLCTECYCHCTGADCTSDTACTGCGNCPNAHTCTDSK- 60
|||||
Db 1 MAFKTCGFSKRWLVIAIVMCLCTECYCHCTGADCTSDTACTGCGNCPNAHTCTDSK- 60

QY 61 CVKATCTGSKNTARTCTNSKDCFEAKTCTDSTNCKYKATCTNSGCPGH 112
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Db 61 CVKATCTGSKNTARTCTNSKDCFEAKTCTDSTNCKYKATCTNSGCPGH 112

RESULT 4

US-08-882-907-19
; Sequence 19, Application US/08882907
; Patent No. 6392024
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cheng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.
; TITLE OF INVENTION: Tenobrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; CLASSIFICATION: 435

MOLECULE TYPE;
US-08-882-907-15

Db Z0 DCHNAETCTRSTNCYKAKTCTGSTNCYEATACMDSTGCP 108

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: ZIP: 46204
: COMPUTER-READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US96/08815
: FILING DATE:
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: Lammert, Steven R.
: REGISTRATION NUMBER: 27653
: REFERENCE/DOCKET NUMBER: 835910-27026
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (317) 231-7258
: TELEFAX: (317) 231-7433
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 108 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: HYPOTHEICAL: YES
: ANTI-SENSE: NO
: ORIGINAL SOURCE:
: ORGANISM: Dendroides canadensis
: PCT-US96-08815-2

Query Match 56.9%; Score 377.5; DB 5; Length 108;
Best Local Similarity 64.6%; Pred. No. 6.6e-27;
Matches 64; Conservative 13; Mismatches 21; Indels 1; Gaps 1

QY 13 LVIAIVMCLCTEYCHCTGADCTSCTDACGCGNCPNHT-CTDSKNCVKATCTGST 71
      |||:::| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 10 LVISVLMVYCHCYGCTGSGDCRSCHVSCITDQNCNPNTACTRBSNINMLTCTDSY 69
      | : | | | | : : | | | | | | | | | | | | | | | | | | | | | |
QY 72 KCNARTCTSKRCFAKCTCTDSTNCYKRACTNSTGCP 110
      | : | | | | : : | | | | | | | | | | | | | | | | | | | | | |
Db 70 DCHNAETCTRTSTNCYKAKTCTGSTNCYEXTACTDSTGCP 108

RESULT 9
US-08-485-359-4
: Sequence 4, Application US/08485359
: Patent No. 5627051
: GENERAL INFORMATION:
: APPLICANT: Duman, John G.
: TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
: TITLE OF INVENTION: DENDROIDES CANDENSIS ANTIFREEZE PROTEINS
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Barnes & Thornburg
: STREET: 11 South Meridian
: CITY: Indianapolis
: STATE: Indiana
: COUNTRY: USA
: ZIP: 46204
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/485,359
: FILING DATE:
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Lammert, Steven R.
: REGISTRATION NUMBER: 27653
: REFERENCE/DOCKET NUMBER: 835910-25377
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (317) 231-7258

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Query Match	54.48;	Score 361;	DB 1;	Length 109;
Best Local Similarity	64.08;	Pred. No. 1.9e-25;		
Matches	64;	Conservative	12;	Mismatches 22;
			Indels	2;
			Gaps	2

APPLICANT: Bamber, Bruce

;; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;; FILE REFERENCE: 21101.000903
;; CURRENT APPLICATION NUMBER: US/09/627,650B
;; CURRENT FILING DATE: 2000-07-28
;; PRIOR APPLICATION NUMBER: 09/436,063
;; PRIOR FILING DATE: 1999-11-08
;; PRIOR APPLICATION NUMBER: 60/107,727
;; PRIOR FILING DATE: 1998-11-09
;; NUMBER OF SEQ ID NOS: 50
;; SOFTWARE: Patentln Ver. 2.1
;; SEQ ID NO 5
;; LENGTH: 1917
;; TYPE: PRF
;; ORGANISM: Caenorhabditis elegans
US-09-627-650B-5

Query Match 24.6%; Score 163.5; DB 4; Length 1917;
Best Local Similarity 30.9%; Pred. No. 7e-07;
Matches 38; Conservative 6; Mismatches 42; Indels 37; Gaps 5;

QY 21 CLCTECC-----HCTGACCTCTDAGTCGCGNCPNAAHTCTDSKNCVK----- 63
DB 1676 CTCTCAACGTCGCTACTGGCTTCTTCATCCGCGACAGCCAGATTCAGGAAGACAA 1735
QY 64 -----AATCTGCTKCN---TARTCTNSK-----DCEFAKTCCTDSTNCKYKATCTNS 106
DB 1736 CGGACAGCTAAATTCCTTAATTCGATGACACACACTCTCTATCTCATTC---TATTTGT 1792
QY 107 TGC 109
DB 1793 AGC 1795

RESULT 13
US-09-436-063C-5
;; Sequence 5, Application US/09436063C
;; Patent No. 6407210
;; GENERAL INFORMATION:
;; APPLICANT: Bamber, Bruce
;; APPLICANT: Jorgensen, Erik
;; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;; TITLE OF INVENTION: Methods Related Thereto
;; FILE REFERENCE: P-10950corrected
;; CURRENT APPLICATION NUMBER: US/09/436,063C
;; CURRENT FILING DATE: 1999-11-08
;; PRIOR APPLICATION NUMBER: 60/107727
;; PRIOR FILING DATE: 1998-11-09
;; NUMBER OF SEQ ID NOS: 18
;; SOFTWARE: Patentln Ver. 2.1
;; SEQ ID NO 5
;; LENGTH: 1917
;; TYPE: PRF
;; ORGANISM: Caenorhabditis elegans
US-09-436-063C-5

Query Match 24.6%; Score 163.5; DB 4; Length 1917;
Best Local Similarity 30.9%; Pred. No. 7e-07;
Matches 38; Conservative 6; Mismatches 42; Indels 37; Gaps 5;

QY 21 CLCTECC-----HCTGACCTCTDAGTCGCGNCPNAAHTCTDSKNCVK----- 63
DB 1676 CTCTCAACGTCGCTACTGGCTTCTTCATCCGCGACAGCCAGATTCAGGAAGACAA 1735
QY 64 -----AATCTGCTKCN---TARTCTNSK-----DCEFAKTCCTDSTNCKYKATCTNS 106
DB 1736 CGGACAGCTAAATTCCTTAATTCGATGACACACACTCTCTATCTCATTC---TATTTGT 1792
QY 107 TGC 109
DB 1793 AGC 1795

RESULT 14
US-08-977-767-3
;; Sequence 3, Application US/08977767
;; Patent No. 5972684
;; GENERAL INFORMATION:
;; APPLICANT: Bandman, Olga
;; APPLICANT: Yue, Henry
;; APPLICANT: Greenwald, Sara
;; APPLICANT: Corley, Neil C.
;; TITLE OF INVENTION: CARBONIC ANHYDRASE VIII
;; NUMBER OF SEQUENCES: 3
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Incyte Pharmaceuticals, Inc.
;; STREET: 3174 Porter Drive
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94304
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/977,767
;; FILING DATE: Herewith
;; CLASSIFICATION: 424
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Billings, Lucy J.
;; REGISTRATION NUMBER: 36,749
;; REFERENCE/DOCKET NUMBER: PF-0423 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-855-0555
;; TELEFAX: 650-845-4166
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1345 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: GenBank
;; CLONE: 1532042
US-08-977-767-3

Query Match 24.2%; Score 160.5; DB 2; Length 1345;
Best Local Similarity 38.3%; Pred. No. 9.4e-07;
Matches 41; Conservative 2; Mismatches 45; Indels 19; Gaps 6;

QY 16 AVIYMCCTEYCHCTGAGDCTSC--TDAGTCGCGNCPNAAHTCTDSKNCVKAA---TCTGS 70
DB 1012 AATATCACCTCCCTCCAG--CTGCATCCCTCGGACT---TCTAGCCAGAAATCTCCGG 1066
QY 71 TKCNARTCTNSKDCFEAKTCCTDSTNCKYKAT-----ACTNSTGCPG 111
DB 1067 GTCCAGTCTT---CCAGAGCTCAGCCGTAACGGCCGCCCTGACAG 1110

RESULT 15
US-09-738-884-1
;; Sequence 1, Application US/09738884
;; Patent No. 6391606
;; GENERAL INFORMATION:
;; APPLICANT: GUEGLER, Karl et al
;; TITLE OF INVENTION: ISOLATED HUMAN PHOSPHOLIPASE PROTEINS,
;; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PHOSPHOLIPASE
;; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
;; FILE REFERENCE: CLO00849
;; CURRENT APPLICATION NUMBER: US/09/738,884

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; CURRENT FILING DATE: 2000-12-18
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2211
; TYPE: PRT
; ORGANISM: Human
US-09-738-884-1

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Query Match      24.1%; Score 160; DB 4; Length 2211;
Best Local Similarity 39.6%; Pred. No. 1.6e-06;
Matches 36; Conservative 0; Mismatches 45; Indels 10; Gaps 4;

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QY 21 CICTECYCHCTGGADCTCTDAGCGGNCNPNATCTDSKNVCVKAATCTGSTRKNTARTCT 80
Db 1138 CACTGGGGGGCTGGAGCAGCAGGCTGC--CATGGCCC--GCCACCTCTGCACCATC--CT 1190
QY 81 NSKDCPEAKTCTDSTNCTKATATCTNSTGCG 111
Db 1191 GGGGGACATGCTGTG--ACACAGGCGGCTG 1218

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Search completed: May 16, 2003, 09:10:26
Job time : 26.7895 secs

GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 16, 2003, 09:00:41 ; Search time 6.78947 Seconds
(without alignments)
340.942 Million cell updates/sec

Title:	US-10-032-658-4
Perfect score:	131
Sequence:	1 XCTGXADCTSCITXACTGCGGXCPNA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 362588 seqs, 96450795 residues

Total number of hits satisfying chosen parameters: 362588

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Minimum DB seq length: 0
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Post-processing:	Minimum Match 0%
	Maximum Match 100%
	Listing first 45 summaries

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Database : Published Applications AA:*
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2: /cgn2_6/ptodata/1/pubpaa/FCI_NEW_PUB.pep.*
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7: /cgn2_6/ptodata/1/pubpaa/FCIS_PUBCOMB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	126	96.2	124	9	US-10-032-658-17	Sequence 19, App1
2	126	96.2	124	9	US-10-032-658-19	Sequence 19, App1
3	126	96.2	148	9	US-10-032-658-15	Sequence 15, App1
4	124	94.7	24	9	US-10-032-658-4	Sequence 4, App1
5	124	94.7	112	9	US-10-032-658-11	Sequence 11, App1
6	124	94.7	112	9	US-10-032-658-13	Sequence 13, App1
7	83	63.4	1750	9	US-10-184-644-397	Sequence 397, App1
8	83	63.4	1750	9	US-10-123-155-187	Sequence 187, App1
9	83	63.4	1750	9	US-10-184-634-397	Sequence 397, App1
10	82.5	63.0	4842	9	US-10-184-644-289	Sequence 289, App1
11	82.5	63.0	4842	9	US-10-184-634-289	Sequence 289, App1
12	80	61.1	2272	9	US-10-184-644-345	Sequence 345, App1
13	80	61.1	2272	9	US-10-184-634-345	Sequence 345, App1
14	80	61.1	3721	9	US-10-123-155-543	Sequence 543, App1
15	78.5	59.9	1312	9	US-10-123-155-397	Sequence 397, App1
16	78	59.5	647	9	US-10-184-644-539	Sequence 539, App1
17	78	59.5	647	9	US-10-184-634-539	Sequence 539, App1
18	78	59.5	1319	9	US-10-123-155-241	Sequence 241, App1
19	78	59.5	2167	9	US-10-123-155-159	Sequence 159, App1

ALIGNMENTS

20	-78	59.5	3286	9	US-10-123-155-369	Sequence 369, App
21	77.5	59.2	1661	9	US-10-184-644-229	Sequence 229, App
22	77.5	59.2	1661	9	US-10-123-155-223	Sequence 223, App
23	77.5	59.2	1661	9	US-10-184-634-229	Sequence 229, App
24	77.5	59.2	2479	9	US-10-123-155-349	Sequence 349, App
25	77	58.8	1371	9	US-10-184-644-143	Sequence 143, App
26	77	58.8	1371	9	US-10-184-634-143	Sequence 143, App
27	77	58.8	1675	9	US-10-123-155-135	Sequence 135, App
28	77	58.8	1813	9	US-10-123-155-337	Sequence 337, App
29	77	58.8	2973	9	US-10-184-644-583	Sequence 583, App
30	-77	58.8	1364	9	US-10-184-634-583	Sequence 583, App
31	76.5	58.4	1364	9	US-10-123-155-295	Sequence 295, App
32	76.5	58.4	1410	9	US-10-184-644-123	Sequence 123, App
33	76.5	58.4	1410	9	US-10-184-634-123	Sequence 123, App
34	76.5	58.4	1911	9	US-10-123-155-139	Sequence 139, App
35	76.5	58.4	2164	9	US-10-123-155-151	Sequence 151, App
36	76.5	58.4	2340	9	US-10-184-644-333	Sequence 333, App
37	76.5	58.4	2340	9	US-10-184-634-333	Sequence 333, App
38	76	58.0	999	9	US-10-123-155-395	Sequence 395, App
39	76	58.0	1114	9	US-10-184-644-271	Sequence 271, App
40	76	58.0	1114	9	US-10-184-634-271	Sequence 271, App
41	76	58.0	2150	9	US-10-123-155-189	Sequence 189, App
42	76	58.0	2319	9	US-10-123-155-137	Sequence 137, App
43	75.5	57.6	1338	9	US-10-123-155-157	Sequence 157, App
44	75	57.3	1257	9	US-10-184-644-365	Sequence 365, App
45	75	57.3	1257	9	US-10-184-634-365	Sequence 365, App

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; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-032-658-17

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Best Local Similarity 87.0%; Pred. No. 4.6e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 CTGAXDCTCTACTGCGXCPNA 24
   ||| ||||| ||||| |||||
DB 30 CTGADCTCTACTGCGSCPNA 52

RESULT 2
US-10-032-658-19
; Sequence 19, Application US/10032658
; Patent No. US20020165383A1
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
;           Liou, Yih-Cherng
;           Walker, Virginia K.
;           Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/032,658
; FILING DATE: 02-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-002100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-032-658-19

Query Match          96.2%; Score 126; DB 9; Length 124;
Best Local Similarity 87.0%; Pred. No. 4.6e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 CTGAXDCTCTACTGCGXCPNA 24
   ||| ||||| ||||| |||||
DB 30 CTGADCTCTACTGCGSCPNA 52

RESULT 3
US-10-032-658-15
; Sequence 15, Application US/10032658
; Patent No. US20020165383A1
; GENERAL INFORMATION:
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; APPLICANT: Graham, Laurie A.
;           Liou, Yih-Cherng
;           Walker, Virginia K.
;           Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/032,658
; FILING DATE: 02-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-002100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 148 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-10-032-658-15

Query Match          96.2%; Score 126; DB 9; Length 148;
Best Local Similarity 87.0%; Pred. No. 5.3e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 CTGAXDCTCTACTGCGXCPNA 24
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DB 30 CTGADCTCTACTGCGSCPNA 52

RESULT 4
US-10-032-658-4
; Sequence 4, Application US/10032658
; Patent No. US20020165383A1
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
;           Liou, Yih-Cherng
;           Walker, Virginia K.
;           Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
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;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/10/032,658
;; FILING DATE: 02-Jan-2002
;; CLASSIFICATION: <Unknown>
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/882,907
;; FILING DATE: 26-JUN-1997
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Weber, Kenneth A.
;; REGISTRATION NUMBER: 31,677
;; REFERENCE/DOCKET NUMBER: 016252-002100US
;;
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (415) 576-0200
;; TELEFAX: (415) 576-0300
;;
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 24 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: <unknown>
;; TOPOLOGY: linear
;;
;; MOLECULE TYPE: peptide
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;; FEATURE:
;; NAME/KEY: Peptide
;; LOCATION: 1..24
;; OTHER INFORMATION: /note= "N-terminal amino acid sequence
;; of YL-1, YL-2, YL-3 and YL-4"
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;; FEATURE:
;; NAME/KEY: Modified-site
;; LOCATION: 1
;; OTHER INFORMATION: /product= "OTHER"
;; /note= "Xaa = Gln or His"
;;
;; FEATURE:
;; NAME/KEY: Modified-site
;; LOCATION: 5
;; OTHER INFORMATION: /product= "OTHER"
;; /note= "Xaa = Ala or Gly"
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;; FEATURE:
;; NAME/KEY: Modified-site
;; LOCATION: 13
;; OTHER INFORMATION: /product= "OTHER"
;; /note= "Xaa = Ala, Asp or Gly"
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;; FEATURE:
;; NAME/KEY: Modified-site
;; LOCATION: 20
;; OTHER INFORMATION: /product= "OTHER"
;; /note= "Xaa = Asn or Ser"
;;
;; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
;; US-10-032-658-4
;;
Query Match 94.7%; Score 124; DB 9; Length 24;
Best Local Similarity 100.0%; Pred. No. 2,1e-08;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTGADCTCTXACTGCGXCPNA 24
DB 2 CTGADCTCTXACTGCGXCPNA 24

;;
;; RESULT 5
;; US-10-032-658-11
;; Sequence 11, Application US/10032658
;; Patent No. US20020165383A1
;; GENERAL INFORMATION:
;; APPLICANT: Graham, Laurie A.
;; Liou, Yih-Cherng
;; Walker, Virginia K.
;; Davies, Peter L.
;; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
;; NUMBER OF SEQUENCES: 22
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Townsend and Townsend and Crew LLP
;; STREET: Two Embarcadero Center, Eighth Floor
;; CITY: San Francisco

;;
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94111-3834
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/10/032,658
;; FILING DATE: 02-Jan-2002
;; CLASSIFICATION: <unknown>
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/882,907
;; FILING DATE: 26-JUN-1997
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Weber, Kenneth A.
;; REGISTRATION NUMBER: 31,677
;; REFERENCE/DOCKET NUMBER: 016252-002100US
;;
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (415) 576-0200
;; TELEFAX: (415) 576-0300
;;
;; INFORMATION FOR SEQ ID NO: 11:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 112 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;;
;; MOLECULE TYPE: protein
;;
;; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
;; US-10-032-658-11

Query Match 94.7%; Score 124; DB 9; Length 112;
Best Local Similarity 87.0%; Pred. No. 7,3e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTGADCTCTXACTGCGXCPNA 24
DB 30 CTGADCTCTDAGTGGCNCPCNA 52

;;
;; RESULT 6
;; US-10-032-658-13
;; Sequence 13, Application US/10032658
;; Patent No. US20020165383A1
;; GENERAL INFORMATION:
;; APPLICANT: Graham, Laurie A.
;; Liou, Yih-Cherng
;; Walker, Virginia K.
;; Davies, Peter L.
;; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
;; NUMBER OF SEQUENCES: 22
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Townsend and Townsend and Crew LLP
;; STREET: Two Embarcadero Center, Eighth Floor
;; CITY: San Francisco
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94111-3834
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/10/032,658
;; FILING DATE: 02-Jan-2002
;; CLASSIFICATION: <unknown>
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/882,907
;; FILING DATE: 26-JUN-1997
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Weber, Kenneth A.
;; REGISTRATION NUMBER: 31,677

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; REFERENCE/DOCKET NUMBER: 016252-002100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 112 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-032-658-13

Query Match          94.7%; Score 124; DB 9; Length 112;
Best Local Similarity 87.0%; Pred. No. 7.3e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTGXADCTCTGACTGCGCPNA 24
   ||| ||||| ||||| |||||
Db 30 CTGADCTCTGACTGCGNCPNA 52

RESULT 7
US-10-184-644-397
; Sequence 397, Application US/10184644
; Publication No. US20030044930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT APPLICATION NUMBER: US/10/184,644
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 397
; LENGTH: 1750
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-397

Query Match          63.4%; Score 83; DB 9; Length 1750;
Best Local Similarity 72.2%; Pred. No. 0.035;
Matches 13; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGXADCTCTGACTGCG 19
   ||| | ||| ||| |||
Db 264 CTGAACCTCTGACTACG 281

RESULT 8
US-10-123-155-187
; Sequence 187, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C30
; CURRENT APPLICATION NUMBER: US/10/123,155
; CURRENT FILING DATE: 2002-04-15
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 187
; LENGTH: 1750
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-187

Query Match          63.4%; Score 83; DB 9; Length 1750;
Best Local Similarity 72.2%; Pred. No. 0.035;
Matches 13; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGXADCTCTGACTGCG 19
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Db 264 CTGAACCTCTGACTACG 281

RESULT 9
US-10-184-634-397
; Sequence 397, Application US/10184634
; Publication No. US20030068684A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C217
; CURRENT APPLICATION NUMBER: US/10/184,634
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 397
; LENGTH: 1750
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-634-397

Query Match          63.4%; Score 83; DB 9; Length 1750;
Best Local Similarity 72.2%; Pred. No. 0.035;
Matches 13; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGXADCTCTGACTGCG 19
   ||| | ||| ||| |||
Db 264 CTGAACCTCTGACTACG 281

RESULT 10
US-10-184-644-289
; Sequence 289, Application US/10184644
; Publication No. US20030044930A1
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RESULT 14
US-10-123-155-543
; Sequence 543, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C30
; CURRENT APPLICATION NUMBER: US/10/123,155
; CURRENT FILING DATE: 2002-04-15
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 543
; LENGTH: 3721
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-543

Query Match      61.1%; Score 80; DB 9; Length 3721;
Best Local Similarity 60.0%; Pred. No. 0.14;
Matches 12; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY  2 CTGXA DCTGCTGCTGCTGCGXC 21
    111 1 11 1111 1
DB  1013 CTGGCTGGCTGCTGCTGCGCC 1032

RESULT 15
US-10-123-155-397
; Sequence 397, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C30
; CURRENT APPLICATION NUMBER: US/10/123,155
; CURRENT FILING DATE: 2002-04-15
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; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 397
; LENGTH: 1312
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-397

Query Match      59.9%; Score 78.5; DB 9; Length 1312;
Best Local Similarity 60.9%; Pred. No. 0.092;
Matches 14; Conservative 0; Mismatches 8; Indels 1; Gaps 1;

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    111 11 11111 1 1
DB  84 CTGACTCT-CTTACTGCTGCTGA 105

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GenCore version 5.1.4_P5_4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 08:29:25 ; Search time 5.52632 Seconds
(Without alignments)
127.780 Million cell updates/sec

Title: US-10-032-658-4
Perfect score: 131
Sequence: 1 XCTGADCTCTACTGCGKCPNA 24

Scoring table: BLOSUM62
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	126	96.2	124	4	US-08-882-907-17 Sequence 17, Appl
2	126	96.2	124	4	US-08-882-907-19 Sequence 19, Appl
3	126	96.2	148	4	US-08-882-907-15 Sequence 15, Appl
4	124	94.7	24	4	US-08-882-907-4 Sequence 4, Appl
5	124	94.7	112	4	US-08-882-907-11 Sequence 11, Appl
6	124	94.7	112	4	US-08-882-907-13 Sequence 13, Appl
7	97	74.0	108	1	US-08-485-359-2 Sequence 2, Appl
8	97	74.0	108	5	US-08-569-594-2 Sequence 2, Appl
9	97	74.0	108	5	PCT-US96-08815-2 Sequence 2, Appl
10	97	74.0	109	1	US-08-485-359-4 Sequence 4, Appl
11	97	74.0	109	5	PCT-US96-08815-4 Sequence 4, Appl
12	97	74.0	109	5	PCT-US96-08815-4 Sequence 4, Appl
13	73.5	56.1	2211	4	US-09-738-884-1 Sequence 1, Appl
14	73	55.7	1917	4	US-09-627-650B-5 Sequence 5, Appl
15	73	55.7	1917	4	US-09-627-650B-5 Sequence 5, Appl
16	71	54.2	1345	2	US-08-456-063C-5 Sequence 3, Appl
17	70.5	53.8	120	3	US-08-977-767-3 Sequence 3, Appl
18	68.5	52.3	45	4	US-08-900-230-14 Sequence 14, Appl
19	68.5	52.3	2088	4	US-09-548-372D-13 Sequence 13, Appl
20	68.5	52.3	2088	4	US-09-548-372D-13 Sequence 13, Appl
21	67.5	51.5	1652	4	US-09-627-650B-1 Sequence 1, Appl
22	67.5	51.5	1652	4	US-09-627-650B-1 Sequence 1, Appl
23	67.5	51.5	2508	4	US-09-627-650B-7 Sequence 7, Appl
24	67.5	51.5	2508	4	US-09-627-650B-7 Sequence 7, Appl
25	67.5	51.5	2544	4	US-09-436-063C-7 Sequence 3, Appl
26	67.5	51.5	2544	4	US-09-436-063C-7 Sequence 3, Appl
27	67.5	51.5	2601	4	US-09-627-650B-9 Sequence 9, Appl

28	67.5	51.5	2601	4	US-09-436-063C-9 Sequence 9, Appl
29	67	51.1	1128	4	US-09-627-650B-11 Sequence 11, Appl
30	67	51.1	1128	4	US-09-436-063C-11 Sequence 11, Appl
31	66.5	50.8	801	1	US-07-906-349A-6 Sequence 6, Appl
32	66.5	50.8	1400	4	US-08-630-915A-37 Sequence 37, Appl
33	65.5	50.0	1417	4	US-08-900-230-3 Sequence 3, Appl
34	63.5	48.5	57	1	US-07-609-716-56 Sequence 56, Appl
35	61	46.6	47	3	US-08-482-085B-91 Sequence 91, Appl
36	60	45.8	45	4	US-08-900-230-17 Sequence 17, Appl
37	60	45.8	50	4	US-08-900-230-8 Sequence 8, Appl
38	59.5	45.4	45	4	US-08-900-230-11 Sequence 11, Appl
39	59	45.0	45	4	US-08-900-230-45 Sequence 45, Appl
40	59	45.0	3788	4	US-09-336-447A-76 Sequence 76, Appl
41	58.5	44.7	50	4	US-08-900-230-58 Sequence 58, Appl
42	58.5	44.7	54	1	US-08-279-058B-24 Sequence 24, Appl
43	58.5	44.7	54	4	US-08-924-022-53 Sequence 53, Appl
44	58.5	44.7	102	3	US-08-974-022-53 Sequence 53, Appl
45	58.5	44.7	102	4	US-08-795-445A-53 Sequence 53, Appl

ALIGNMENTS

RESULT 1

US-08-882-907-17
Sequence 17, Application US/08882907
Patent No. 6392024

GENERAL INFORMATION:

APPLICANT: Graham, Laurie A.

APPLICANT: Liou, Yih-Cheng

APPLICANT: Walker, Virginia K.

APPLICANT: Davies, Peter L.

TITLE OF INVENTION: Tenebrio Antifreeze Proteins

NUMBER OF SEQUENCES: 22

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, Eighth Floor

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/882,907

FILING DATE: 26-JUN-1997

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Weber, Kenneth A.

REGISTRATION NUMBER: 31,677

REFERENCE/DOCKET NUMBER: 016252-002100US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 124 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-882-907-17

Query Match 96.2%; Score 126; DB 4; Length 124;
Best Local Similarity 87.0%; Pred. No. 1e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTGACTCTACTGCGKCPNA 24
DB 30 CTGADCTCTACTGCGKCPNA 52

RESULT 2
US-08-882-907-19
; Sequence 19, Application US/08882907
; Patent No. 6392024
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cheng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-00210005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-882-907-19
Query Match 96.2%; Score 126; DB 4; Length 124;
Best Local Similarity 87.0%; Pred. No. 1e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2 CTGACDCTCTACTGCGCPCNA 24
DB 30 CTGACDCTCTACTGCGCPCNA 52
RESULT 3
US-08-882-907-15
; Sequence 15, Application US/08882907
; Patent No. 6392024
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cheng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-00210005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Peptide

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-00210005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 148 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-882-907-15
Query Match 96.2%; Score 126; DB 4; Length 148;
Best Local Similarity 87.0%; Pred. No. 1.2e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2 CTGACDCTCTACTGCGCPCNA 24
DB 30 CTGACDCTCTACTGCGCPCNA 52
RESULT 4
US-08-882-907-4
; Sequence 4, Application US/08882907
; Patent No. 6392024
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cheng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-00210005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Peptide

LOCATION: 1..24
OTHER INFORMATION: /note= "N-terminal amino acid sequence
OTHER INFORMATION: of YL-1, YL-2, YL-3 and YL-4"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Xaa = Gln or His"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 5
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Xaa = Ala or Gly"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 13
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Xaa = Ala, Asp or Gly"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 20
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Xaa = Asn or Ser"
US-08-882-907-4

Query Match 94.7%; Score 124; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 4,4e-09;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTGADCTCTACTGCGXCPNA 24
DB 2 CTGADCTCTACTGCGXCPNA 24

RESULT 5
US-08-882-907-11
Sequence 11, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Liou, Yih-Cherng
APPLICANT: Walker, Virginia K.
APPLICANT: Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
City: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-882-907-11

Query Match 94.7%; Score 124; DB 4; Length 112;
Best Local Similarity 87.0%; Pred. No. 1.6e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 CTGADCTCTACTGCGXCPNA 24
DB 30 CTGADCTCTACTGCGXCPNA 52

RESULT 6
US-08-882-907-13
Sequence 13, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Liou, Yih-Cherng
APPLICANT: Walker, Virginia K.
APPLICANT: Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
City: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-882-907-13

Query Match 94.7%; Score 124; DB 4; Length 112;
Best Local Similarity 87.0%; Pred. No. 1.6e-08;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 CTGADCTCTACTGCGXCPNA 24
DB 30 CTGADCTCTACTGCGXCPNA 52

RESULT 7
US-08-485-359-2
Sequence 2, Application US/08485359
Patent No. 5627051
GENERAL INFORMATION:
APPLICANT: Duman, John G.
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
TITLE OF INVENTION: DENDROIDES CANDENSIS ANTIFREEZE PROTEINS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Barnes & Thornbury
STREET: 11 South Meridian
CITY: Indianapolis
STATE: Indiana
COUNTRY: USA
ZIP: 46204
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,359
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lammert, Steven R.
REGISTRATION NUMBER: 27653
REFERENCE/DOCKET NUMBER: 835910-25377
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 231-7258
TELEFAX: (317) 231-7433
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 108 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Dendroides canadensis
US-08-485-359-2

Query Match 74.0%; Score 97; DB 1; Length 108;
Best Local Similarity 65.2%; Pred. No. 2.6e-05;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 CTGXADCTCTXACTGCGXCPNA 24
DB 27 CTGGSDCRSCTVSCITDQNCNPA 49

RESULT 8
US-08-569-594-2
Sequence 2, Application US/08569594
Patent No. 5633451
GENERAL INFORMATION:
APPLICANT: Duman, John G.
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
TITLE OF INVENTION: DENDROIDES CANADENSIS ANTIFREEZE PROTEINS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Barnes & Thornbury
STREET: 11 South Meridian
CITY: Indianapolis
STATE: Indiana
COUNTRY: USA
ZIP: 46204
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/569,594
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Lammert, Steven R.
REGISTRATION NUMBER: 27653
REFERENCE/DOCKET NUMBER: 835910-25377
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 231-7258
TELEFAX: (317) 231-7433
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 108 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Dendroides canadensis
PCT-US96-08815-2

TELEPHONE: (317) 231-7258
TELEFAX: (317) 231-7433
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 108 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Dendroides canadensis
US-08-569-594-2

Query Match 74.0%; Score 97; DB 1; Length 108;
Best Local Similarity 65.2%; Pred. No. 2.6e-05;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 CTGXADCTCTXACTGCGXCPNA 24
DB 27 CTGGSDCRSCTVSCITDQNCNPA 49

RESULT 9
PCT-US96-08815-2
Sequence 2, Application PC/TUS9608815
GENERAL INFORMATION:
APPLICANT: Duman, John G.
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
TITLE OF INVENTION: DENDROIDES ANTIFREEZE PROTEINS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Barnes & Thornbury
STREET: 11 South Meridian
CITY: Indianapolis
STATE: Indiana
COUNTRY: USA
ZIP: 46204
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08815
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Lammert, Steven R.
REGISTRATION NUMBER: 27653
REFERENCE/DOCKET NUMBER: 835910-27026
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 231-7258
TELEFAX: (317) 231-7433
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 108 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Dendroides canadensis
PCT-US96-08815-2

Query Match 74.0%; Score 97; DB 5; Length 108;
Best Local Similarity 65.2%; Pred. No. 2.6e-05;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 CTGXADCTCTXACTGCGXCPNA 24
DB 27 CTGGSDCRSCTVSCITDQNCNPA 49

RESULT 10
US-08-485-359-4
; Sequence 4, Application US/08485359
; Patent No. 5627051
; GENERAL INFORMATION:
; APPLICANT: Duman, John G.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: DENDROIDES CANADENSIS ANTIFREEZE PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Barnes & Thornburg
; STREET: 11 South Meridian
; CITY: Indianapolis
; STATE: Indiana
; COUNTRY: USA
; ZIP: 46204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,359
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lammert, Steven R.
; REGISTRATION NUMBER: 27653
; REFERENCE/DOCKET NUMBER: 835910-25377
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 231-7258
; TELEFAX: (317) 231-7433
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 109 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Dendroides canadensis
; US-08-485-359-4
Query Match 74.0%; Score 97; DB 1; Length 109;
Best Local Similarity 65.2%; Pred. No. 2.6e-05;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
QY 2 CTGADCTCTXACTGCGKCPNA 24
DB 27 CTGGSDCRCTVSCDQNCNCPNA 49
RESULT 11
US-08-569-594-4
; Sequence 4, Application US/08569594
; Patent No. 5633451
; GENERAL INFORMATION:
; APPLICANT: Duman, John G.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: DENDROIDES CANADENSIS ANTIFREEZE PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Barnes & Thornburg
; STREET: 11 South Meridian
; CITY: Indianapolis
; STATE: Indiana
; COUNTRY: USA
; ZIP: 46204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/569,594
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Lammert, Steven R.
; REGISTRATION NUMBER: 27653
; REFERENCE/DOCKET NUMBER: 835910-25377
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 231-7258
; TELEFAX: (317) 231-7433
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 109 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Dendroides canadensis
; US-08-569-594-4

Query Match 74.0%; Score 97; DB 1; Length 109;
Best Local Similarity 65.2%; Pred. No. 2.6e-05;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 CTGADCTCTXACTGCGKCPNA 24
DB 27 CTGGSDCRCTVSCDQNCNCPNA 49

RESULT 12
PCT-US96-08815-4
; Sequence 4, Application PC/TUS9608815
; GENERAL INFORMATION:
; APPLICANT: Duman, John G.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: DENDROIDES ANTIFREEZE PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Barnes & Thornburg
; STREET: 11 South Meridian
; CITY: Indianapolis
; STATE: Indiana
; COUNTRY: USA
; ZIP: 46204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08815
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lammert, Steven R.
; REGISTRATION NUMBER: 27653
; REFERENCE/DOCKET NUMBER: 835910-27026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 231-7433
; TELEFAX: (317) 231-7433
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 109 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES

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OM protein - protein search, using sw model

Run on: May 16, 2003, 08:29:25 ; Search time 3.68421 Seconds
(without alignments)
127.780 Million cell updates/sec

Title: US-10-032-658-3

Perfect score: 64

Sequence: 1 XCTXXXCTXCTXXCT 16

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA: *
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/PCUS.COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/DackR1les1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	54	84.4	148	4	US-08-882-907-15
2	53	82.8	124	4	US-08-882-907-17
3	53	82.8	124	4	US-08-882-907-19
4	52	81.2	24	4	US-08-882-907-4
5	52	81.2	112	4	US-08-882-907-11
6	52	81.2	112	4	US-08-882-907-13
7	49	76.6	16	4	US-08-882-907-3
8	48	75.0	45	4	US-08-900-230-14
9	47	73.4	50	4	US-08-900-230-38
10	47	73.4	1128	4	US-09-627-6508-11
11	47	73.4	1128	4	US-09-436-063C-11
12	47	73.4	1652	4	US-09-627-6508-1
13	47	73.4	1652	4	US-09-436-063C-1
14	47	73.4	2508	4	US-09-627-6508-7
15	47	73.4	2508	4	US-09-436-063C-7
16	47	73.4	2544	4	US-09-627-6508-3
17	47	73.4	2544	4	US-09-436-063C-3
18	47	73.4	2601	4	US-09-627-6508-9
19	47	73.4	2601	4	US-09-436-063C-9
20	46	71.9	24	1	US-08-036-555B-41
21	46	71.9	24	1	US-08-469-569-41
22	46	71.9	24	1	US-08-469-569-41
23	46	71.9	24	1	US-08-469-569-41
24	46	71.9	24	1	US-08-469-569-41
25	46	71.9	24	1	US-08-469-569-41
26	46	71.9	24	1	US-08-469-569-41
27	46	71.9	24	1	US-08-469-569-41

28	46	71.9	24	5	PCT-US94-05083C-41	Sequence 41, Appl
29	46	71.9	24	5	PCT-US95-06846A-41	Sequence 41, Appl
30	46	71.9	108	1	US-08-485-359-2	Sequence 2, Appl1
31	46	71.9	108	1	US-08-569-594-2	Sequence 2, Appl1
32	46	71.9	108	5	PCT-US96-08815-2	Sequence 2, Appl1
33	46	71.9	109	1	US-08-485-359-4	Sequence 4, Appl1
34	46	71.9	109	1	US-08-569-594-4	Sequence 4, Appl1
35	46	71.9	109	5	PCT-US96-08815-4	Sequence 4, Appl1
36	45	70.3	1345	2	US-08-977-767-3	Sequence 3, Appl1
37	43	67.2	1417	4	US-08-900-230-3	Sequence 4, Appl1
38	43	67.2	2088	4	US-09-548-372D-13	Sequence 13, Appl
39	43	67.2	2088	4	US-09-548-372D-13	Sequence 13, Appl
40	41.5	64.8	2211	4	US-09-738-867D-13	Sequence 13, Appl
41	41	64.1	1400	4	US-08-630-915A-37	Sequence 37, Appl
42	41	64.1	1917	4	US-09-627-6508-5	Sequence 5, Appl1
43	41	64.1	1917	4	US-09-436-063C-5	Sequence 5, Appl1
44	40	62.5	45	4	US-08-900-230-10	Sequence 10, Appl
45	40	62.5	57	1	US-07-609-716-56	Sequence 56, Appl

ALIGNMENTS

RESULT 1
US-08-882-907-15
; Sequence 15, Application US/08882907
; Patent No. 6392024
GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cherng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
INFORMATION FOR SEQ. ID NO.: 15:
SEQUENCE CHARACTERISTICS:
; LENGTH: 148 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-882-907-15
Query Match 84.4%; Score 54; DB 4; Length 148;
Best Local Similarity 53.3%; Pred. No. 0.61;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
OY 2 CTFXXXXCTXCTXXCT 16
DB 30 CTGAACTCTCTACT 44

RESULT 2
US-08-882-907-17
Sequence 17, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Liou, Yih-Cherng
APPLICANT: Walker, Virginia K.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 124 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-882-907-17
Query Match 82.8%; Score 53; DB 4; Length 124;
Best Local Similarity 53.3%; Pred. No. 0.72;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 2 CTXXXCTXCTXXCT 16
DB 30 CTGAGDCTCTACT 44

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 124 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-882-907-19
Query Match 82.8%; Score 53; DB 4; Length 124;
Best Local Similarity 53.3%; Pred. No. 0.72;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 2 CTXXXCTXCTXXCT 16
DB 30 CTGAGDCTCTACT 44

RESULT 4
US-08-882-907-4
Sequence 4, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Liou, Yih-Cherng
APPLICANT: Walker, Virginia K.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Peptide

LOCATION: 1..24 /note="N-terminal amino acid sequence
OTHER INFORMATION: of YL-1, YL-2, YL-3 and YL-4"
FEATURE: Modified-site
NAME/KEY: Modified-site
LOCATION: 1
OTHER INFORMATION: /product="OTHER"
OTHER INFORMATION: /note="Xaa = Gln or His"
FEATURE: Modified-site
NAME/KEY: Modified-site
LOCATION: 5
OTHER INFORMATION: /product="OTHER"
OTHER INFORMATION: /note="Xaa = Ala or Gly"
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LOCATION: 13
OTHER INFORMATION: /product="OTHER"
OTHER INFORMATION: /note="Xaa = Ala, Asp or Gly"
FEATURE: Modified-site
NAME/KEY: Modified-site
LOCATION: 20
OTHER INFORMATION: /product="OTHER"
OTHER INFORMATION: /note="Xaa = Asn or Ser"
US-08-882-907-4

Query Match 81.2%; Score 52; DB 4; Length 24;
Best Local Similarity 66.7%; Pred. No. 0.3;
Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTXXXCTCTCTCTCT 16
DB 2 CTGADCTCTCTCTCT 16

RESULT 5
US-08-882-907-11
Sequence 11, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Liou, Yih-Cherng
APPLICANT: Walker, Virginia K.
APPLICANT: Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0300
TELEFAX: (415) 576-0200
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-882-907-11

Query Match 81.2%; Score 52; DB 4; Length 112;
Best Local Similarity 53.3%; Pred. No. 0.89;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXCTCTCTCTCT 16
DB 30 CTGADCTCTCTCTCT 44

RESULT 6
US-08-882-907-13

Sequence 13, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Liou, Yih-Cherng
APPLICANT: Walker, Virginia K.
APPLICANT: Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0300
TELEFAX: (415) 576-0200
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-882-907-13

Query Match 81.2%; Score 52; DB 4; Length 112;
Best Local Similarity 53.3%; Pred. No. 0.89;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXCTCTCTCTCT 16
DB 30 CTGADCTCTCTCTCT 44

RESULT 7
US-08-882-907-3

Sequence 3, Application US/08882907
Patent No. 6392024
GENERAL INFORMATION:
APPLICANT: Graham, Laurie A.
APPLICANT: Liou, Yih-Cherng
APPLICANT: Walker, Virginia K.
APPLICANT: Davies, Peter L.
TITLE OF INVENTION: Tenebrio Antifreeze Proteins

NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,907
FILING DATE: 26-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-002100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..16
OTHER INFORMATION: /note="consensus 16 amino acid
OTHER INFORMATION: N-terminal motif for YL-1, YL-2, YL-3
OTHER INFORMATION: and YL-4"
US-08-882-907-3
Query Match 76.6%; Score 49; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTXXXCTXCTXXCT 16
Db 2 CTXXXCTXCTXXCT 16
RESULT 8
US-08-900-230-14
Sequence 14, Application US/08900230
Patent No. 6329197
GENERAL INFORMATION:
APPLICANT: Bard, Jonathan A.
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of The Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 11036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/900,230
FILING DATE: 23-JUL-1997
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE:
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-900-230-14
Query Match 75.0%; Score 48; DB 4; Length 45;
Best Local Similarity 46.7%; Pred. No. 1.5;
Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 2 CTXXXCTXCTXXCT 16
Db 25 CTTAGCTACTGCT 39
RESULT 9
US-08-900-230-58
Sequence 58, Application US/08900230
Patent No. 6329197
GENERAL INFORMATION:
APPLICANT: Bard, Jonathan A.
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of The Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 11036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/900,230
FILING DATE: 23-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE:
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-900-230-58
Query Match 73.4%; Score 47; DB 4; Length 50;
Best Local Similarity 46.7%; Pred. No. 2.1;
Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 2 CTXXXXCTXCTXXCT 16
 Db 9 CTAATGAGACTACT 23

RESULT 10
 US-09-627-650B-11
 ; Sequence 11, Application US/09627650B
 ; Patent No. 6406872
 ; GENERAL INFORMATION:
 ; APPLICANT: Bamder, Bruce
 ; APPLICANT: Jorgensen, Erik
 ; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
 ; FILE REFERENCE: 21101.000903
 ; CURRENT APPLICATION NUMBER: US/09/627,650B
 ; PRIOR FILING DATE: 2000-07-28
 ; PRIOR APPLICATION NUMBER: 09/436,063
 ; PRIOR FILING DATE: 1999-11-08
 ; PRIOR APPLICATION NUMBER: 60/107,727
 ; NUMBER OF SEQ ID NOS: 50
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 11
 ; LENGTH: 1128
 ; TYPE: PRT
 ; ORGANISM: Caenorhabditis elegans
 US-09-627-650B-11

Query Match 73.4%; Score 47; DB 4; Length 1128;
 Best Local Similarity 46.7%; Pred. No. 19;
 Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 OY 2 CTXXXXCTXCTXXCT 16
 Db 575 CGGTTCTGCTACT 589

RESULT 11
 US-09-436-063C-11
 ; Sequence 11, Application US/09436063C
 ; Patent No. 6407210
 ; GENERAL INFORMATION:
 ; APPLICANT: Bamder, Bruce
 ; APPLICANT: Jorgensen, Erik
 ; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
 ; FILE REFERENCE: P-1095corrected
 ; CURRENT APPLICATION NUMBER: US/09/436,063C
 ; PRIOR FILING DATE: 1999-11-08
 ; PRIOR APPLICATION NUMBER: 60/107727
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 11
 ; LENGTH: 1128
 ; TYPE: PRT
 ; ORGANISM: Caenorhabditis elegans
 US-09-436-063C-11

Query Match 73.4%; Score 47; DB 4; Length 1128;
 Best Local Similarity 46.7%; Pred. No. 19;
 Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 OY 2 CTXXXXCTXCTXXCT 16
 Db 575 CGGTTCTGCTACT 589

RESULT 12
 US-09-627-650B-1
 ; Sequence 1, Application US/09627650B

Patent No. 6406872
 ; GENERAL INFORMATION:
 ; APPLICANT: Bamder, Bruce
 ; APPLICANT: Jorgensen, Erik
 ; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
 ; FILE REFERENCE: 21101.000903
 ; CURRENT APPLICATION NUMBER: US/09/627,650B
 ; PRIOR FILING DATE: 2000-07-28
 ; PRIOR APPLICATION NUMBER: 09/436,063
 ; PRIOR FILING DATE: 1999-11-08
 ; PRIOR APPLICATION NUMBER: 60/107,727
 ; NUMBER OF SEQ ID NOS: 50
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 1652
 ; TYPE: PRT
 ; ORGANISM: Caenorhabditis elegans
 US-09-627-650B-1

Query Match 73.4%; Score 47; DB 4; Length 1652;
 Best Local Similarity 46.7%; Pred. No. 25;
 Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 OY 2 CTXXXXCTXCTXXCT 16
 Db 1076 CGGTTCTGCTACT 1090

RESULT 13
 US-09-436-063C-1
 ; Sequence 1, Application US/09436063C
 ; Patent No. 6407210
 ; GENERAL INFORMATION:
 ; APPLICANT: Bamder, Bruce
 ; APPLICANT: Jorgensen, Erik
 ; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
 ; FILE REFERENCE: P-1095corrected
 ; CURRENT APPLICATION NUMBER: US/09/436,063C
 ; PRIOR FILING DATE: 1999-11-08
 ; PRIOR APPLICATION NUMBER: 60/107727
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 1652
 ; TYPE: PRT
 ; ORGANISM: Caenorhabditis elegans
 US-09-436-063C-1

Query Match 73.4%; Score 47; DB 4; Length 1652;
 Best Local Similarity 46.7%; Pred. No. 25;
 Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 OY 2 CTXXXXCTXCTXXCT 16
 Db 1076 CGGTTCTGCTACT 1090

RESULT 14
 US-09-627-650B-7
 ; Sequence 7, Application US/09627650B
 ; Patent No. 6406872
 ; GENERAL INFORMATION:
 ; APPLICANT: Bamder, Bruce
 ; APPLICANT: Jorgensen, Erik
 ; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
 ; FILE REFERENCE: 21101.000903
 ; CURRENT APPLICATION NUMBER: US/09/627,650B
 ; CURRENT FILING DATE: 2000-07-28

; PRIOR APPLICATION NUMBER: 09/436,063
 ; PRIOR FILING DATE: 1999-11-08
 ; PRIOR APPLICATION NUMBER: 60/107,727
 ; PRIOR FILING DATE: 1998-11-09
 ; NUMBER OF SEQ ID NOS: 50
 ; SOFTWARE: Patentln Ver. 2.1
 ; SEQ ID NO 7
 ; LENGTH: 2508
 ; TYPE: PRT
 ; ORGANISM: Caenorhabditis elegans
 US-09-627-6508-7

Query Match 73.4%; Score 47; DB 4; Length 2508;
 Best Local Similarity 46.7%; Pred. No. 34;
 Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Oy 2 CXXXXXXCTXXCT 16
 | | | | |
 Db 1960 CGGTTCTGCTATCT 1974

RESULT 15
 US-09-436-063C-7
 ; Sequence 7, Application US/09436063C
 ; Patent No. 6407210
 ; GENERAL INFORMATION:
 ; APPLICANT: Bamder, Bruce
 ; APPLICANT: Jorgensen, Erik
 ; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
 ; TITLE OF INVENTION: Methods Related Thereto
 ; FILE REFERENCE: P-1095corrected
 ; CURRENT APPLICATION NUMBER: US/09/436,063C
 ; CURRENT FILING DATE: 1999-11-08
 ; PRIOR APPLICATION NUMBER: 60/107727
 ; PRIOR FILING DATE: 1998-11-09
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: Patentln Ver. 2.1
 ; SEQ ID NO 7
 ; LENGTH: 2508
 ; TYPE: PRT
 ; ORGANISM: Caenorhabditis elegans
 US-09-436-063C-7

Query Match 73.4%; Score 47; DB 4; Length 2508;
 Best Local Similarity 46.7%; Pred. No. 34;
 Matches 7; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Oy 2 CXXXXXXCTXXCT 16
 | | | | |
 Db 1960 CGGTTCTGCTATCT 1974

Search completed: May 16, 2003, 09:10:24
 Job time : 5.68421 secs

GenCore version 5.1.4.P5-4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 09:00:41 ; Search time 4.52632 Seconds

(without alignments)
340.942 Million cell updates/sec

Title: US-10-032-658-3
Perfect score: 64
Sequence: 1 XCTXXXXCTXCTXCT 16

Scoring table:
Gapop 10.0 , Gapext 0.5

Searched: 362588 seqs, 96450795 residues

Total number of hits satisfying chosen parameters: 362588

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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13: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB pep:*
14: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	55	85.9	2477	9	US-10-123-155-331
2	54	84.4	148	9	US-10-032-658-15
3	54	84.4	539	9	US-10-184-644-531
4	54	84.4	539	9	US-10-184-634-531
5	54	84.4	630	9	US-09-791-279-86
6	54	84.4	1750	9	US-10-184-644-397
7	54	84.4	1750	9	US-10-123-155-187
8	54	84.4	1750	9	US-10-184-634-397
9	54	84.4	2128	9	US-10-184-644-171
10	54	84.4	2128	9	US-10-184-634-171
11	53	82.8	124	9	US-10-032-658-17
12	53	82.8	1917	9	US-10-032-658-19
13	53	82.8	1917	9	US-10-184-644-159
14	53	82.8	2120	9	US-10-184-634-159
15	53	82.8	2120	9	US-10-123-155-73
16	52	81.2	24	9	US-10-032-658-4
17	52	81.2	112	9	US-10-032-658-11
18	52	81.2	112	9	US-10-032-658-13
19	52	81.2	944	9	US-10-268-473-4

20	52	81.2	1177	9	US-10-184-644-381	Sequence 381, App
21	52	81.2	1177	9	US-10-184-634-381	Sequence 381, App
22	52	81.2	1410	9	US-10-184-644-123	Sequence 123, App
23	52	81.2	1410	9	US-10-184-634-123	Sequence 123, App
24	52	81.2	2747	9	US-10-184-644-101	Sequence 101, App
25	52	81.2	2747	9	US-10-184-634-101	Sequence 101, App
26	52	81.2	2916	9	US-10-123-155-69	Sequence 69, App
27	52	81.2	3089	9	US-10-184-644-61	Sequence 61, App
28	52	81.2	3089	9	US-10-184-634-61	Sequence 61, App
29	52	81.2	3479	9	US-10-123-155-123	Sequence 123, App
30	52	81.2	3671	9	US-10-184-644-265	Sequence 265, App
31	52	81.2	3671	9	US-10-184-634-265	Sequence 265, App
32	52	81.2	3951	9	US-10-184-644-119	Sequence 119, App
33	52	81.2	3951	9	US-10-184-634-119	Sequence 119, App
34	52	81.2	4060	9	US-10-123-155-197	Sequence 197, App
35	52	81.2	4060	9	US-10-184-644-437	Sequence 437, App
36	51	79.7	1158	9	US-10-184-634-437	Sequence 437, App
37	51	79.7	1487	9	US-10-184-644-5	Sequence 5, App
38	51	79.7	1487	9	US-10-184-634-5	Sequence 5, App
39	51	79.7	1554	9	US-10-184-644-297	Sequence 297, App
40	51	79.7	1554	9	US-10-184-634-297	Sequence 297, App
41	51	79.7	2281	9	US-10-184-644-253	Sequence 253, App
42	51	79.7	2281	9	US-10-184-634-253	Sequence 253, App
43	51	79.7	2387	9	US-10-123-155-527	Sequence 527, App
44	51	79.7	2806	9	US-10-123-155-201	Sequence 201, App
45	51	79.7	3322	9	US-10-184-644-489	Sequence 489, App

ALIGNMENTS

RESULT 1
US-10-123-155-331
Sequence 331, Application US/10123155
Publication No. US2003006794A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Flivaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P330R1C30
CURRENT APPLICATION NUMBER: US/10/123,155
CURRENT FILING DATE: 2002-04-15
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 331
LENGTH: 2477
TYPE: DNA
ORGANISM: Homo Sapien
US-10-123-155-331

Query Match 85.9%; Score 55; DB 9; Length 2477;

Best Local Similarity 53.3%; Pred. No. 5.1;

Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Query 2 CTTXXXXCTXCTXCT 16
Db 1581 CTTTGTCTACTTCT 1595

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RESULT 2
US-10-032-658-15
; Sequence 15, Application US/10032658
; Patent No. US2002016583A1
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
;           Liou, Yih-Cherng
;           Walker, Virginia K.
;           Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/032,658
; FILING DATE: 02-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-002100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 148 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-10-032-658-15

Query Match      84.4%; Score 54; DB 9; Length 148;
Best Local Similarity 53.3%; Pred. No. 0.9;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      2 CTXXXCTXCTXXCT 16
DB      30 CTGAADCTCTACT 44

RESULT 3
US-10-184-644-531
; Sequence 531, Application US/10184644
; Publication No. US20030044930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin

```

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; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT APPLICATION NUMBER: US/10/184,644
; PRIOR APPLICATION: 2002-06-28
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 531
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-531

Query Match      84.4%; Score 54; DB 9; Length 539;
Best Local Similarity 53.3%; Pred. No. 2.3;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      2 CTXXXCTXCTXXCT 16
DB      212 CTGATCTCTGTCT 226

RESULT 4
US-10-184-634-531
; Sequence 531, Application US/10184634
; Publication No. US20030068684A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C217
; CURRENT APPLICATION NUMBER: US/10/184,634
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 531
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-634-531

Query Match      84.4%; Score 54; DB 9; Length 539;
Best Local Similarity 53.3%; Pred. No. 2.3;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      2 CTXXXCTXCTXXCT 16
DB      212 CTGATCTCTGTCT 226

RESULT 5
US-09-791-279-86
; Sequence 86, Application US/09791279
; Publication No. US20030050456A1
; GENERAL INFORMATION:
; APPLICANT: Vogel, Gabriel
; APPLICANT: Wood, Linda S.
; APPLICANT: Parodi, Luis
; APPLICANT: Lind, Peter
; TITLE OF INVENTION: No. US20030050456A1 G Protein-Coupled Receptors
; FILE REFERENCE: 00048_US1
; CURRENT APPLICATION NUMBER: US/09/791,279
; CURRENT FILING DATE: 2001-02-23

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;; PRIOR APPLICATION NUMBER: 60/184,715
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,725
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,712
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,606
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,602
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,604
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,822
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,710
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,689
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,690
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: 60/184,716
;; PRIOR FILING DATE: 2000-02-24
;; NUMBER OF SEQ ID NOS: 220
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO: 86
;; LENGTH: 630
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-791-279-86

Query Match 84.4%; Score 54; DB 9; Length 630;
Best Local Similarity 53.3%; Pred. No. 2.6;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXXCTXCTXCT 16
DB 45 CTTGGCTACTTCTCT 59

RESULT 6
US-10-184-644-397
;; Sequence 397, Application US/10184644
;; Publication No. US20030044930A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Chen, Jian
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Pan, James
;; APPLICANT: Smith, Victoria
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P3430R1C227
;; CURRENT APPLICATION NUMBER: US/10/184,644
;; CURRENT FILING DATE: 2002-06-28
;; Prior Application removed - See File Wrapper or Palm
;; NUMBER OF SEQ ID NOS: 612
;; SEQ ID NO: 397
;; LENGTH: 1750
;; TYPE: DNA
;; ORGANISM: Homo Sapien
US-10-184-644-397

Query Match 84.4%; Score 54; DB 9; Length 1750;
Best Local Similarity 53.3%; Pred. No. 5.3;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 2 CTXXXXCTXCTXCT 16

DB 264 CTGAACCTCTGACT 278

RESULT 7
US-10-123-155-187
;; Sequence 187, Application US/10123155
;; Publication No. US20030068794A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Beresini, Maureen
;; APPLICANT: DeForge, Laura
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerlitsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Sherwood, Steven
;; APPLICANT: Smith, Victoria
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Wood, William
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P3330R1C30
;; CURRENT APPLICATION NUMBER: US/10/123,155
;; CURRENT FILING DATE: 2002-04-15
;; Prior Application removed - See Palm or File Wrapper
;; NUMBER OF SEQ ID NOS: 550
;; SEQ ID NO: 187
;; LENGTH: 1750
;; TYPE: DNA
;; ORGANISM: Homo Sapien
US-10-123-155-187

Query Match 84.4%; Score 54; DB 9; Length 1750;
Best Local Similarity 53.3%; Pred. No. 5.3;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 2 CTXXXXCTXCTXCT 16
DB 264 CTGAACCTCTGACT 278

RESULT 8
US-10-184-634-397
;; Sequence 397, Application US/10184634
;; Publication No. US2003006864A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Chen, Jian
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Pan, James
;; APPLICANT: Smith, Victoria
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P3430R1C217
;; CURRENT APPLICATION NUMBER: US/10/184,634
;; CURRENT FILING DATE: 2002-06-28
;; Prior Application removed - See File Wrapper or Palm
;; NUMBER OF SEQ ID NOS: 612
;; SEQ ID NO: 397
;; LENGTH: 1750

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; TYPE: DNA
; ORGANISM: Homo Saplen
US-10-184-634-397

Query Match
Best Local Similarity 84.4%; Score 54; DB 9; Length 1750;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXCTXCTXXCT 16
DB 264 CTGAACCTCTCTGACT 278

RESULT 9
US-10-184-644-171
; Sequence 171, Application US/10184644
; Publication No. US20030044930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT APPLICATION NUMBER: US/10/184,644
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 171
; LENGTH: 2128
; TYPE: DNA
; ORGANISM: Homo Saplen
US-10-184-644-171

Query Match
Best Local Similarity 84.4%; Score 54; DB 9; Length 2128;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXCTXCTXXCT 16
DB 1649 CTGAGACTCTCTTCT 1663

RESULT 10
US-10-184-634-171
; Sequence 171, Application US/10184634
; Publication No. US20030068684A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C217
; CURRENT APPLICATION NUMBER: US/10/184,634
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
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; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 171
; LENGTH: 2128
; TYPE: DNA
; ORGANISM: Homo Saplen
US-10-184-634-171

Query Match
Best Local Similarity 84.4%; Score 54; DB 9; Length 2128;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXCTXCTXXCT 16
DB 1649 CTGAGACTCTCTTCT 1663

RESULT 11
US-10-032-658-17
; Sequence 17, Application US/10032658
; Patent No. US20020165383A1
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
; APPLICANT: Liou, Yih-Cherng
; APPLICANT: Walker, Virginia K.
; APPLICANT: Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/032,658
; FILING DATE: 02-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-00210005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-032-658-17

Query Match
Best Local Similarity 82.8%; Score 53; DB 9; Length 124;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXCTXCTXXCT 16
DB 30 CTGADCTCTRACT 44

RESULT 12
US-10-032-658-19
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; Sequence 19, Application US/10032658
; Patent No. US20020165383A1
; GENERAL INFORMATION:
; APPLICANT: Graham, Laurie A.
;              Liou, Yih-Cherng
;              Walker, Virginia K.
;              Davies, Peter L.
; TITLE OF INVENTION: Tenebrio Antifreeze Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/032,658
; FILING DATE: 02-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/882,907
; FILING DATE: 26-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 016252-002100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
;
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-032-658-19
;
Query Match      82.8%; Score 53; DB 9; Length 124;
Best Local Similarity 53.3%; Pred. No. 1,1;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
OY      2 CTXXXXCTXCTXXCT 16
Db      30 CTGADCTCTACT 44
;
RESULT 13
US-10-184-644-159
; Sequence 159, Application US/10184644
; Publication No. US20030044930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT APPLICATION NUMBER: US/10/184,644
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; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 159
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-159
;
Query Match      82.8%; Score 53; DB 9; Length 1917;
Best Local Similarity 53.3%; Pred. No. 7,6;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
OY      2 CTXXXXCTXCTXXCT 16
Db      688 CTCATTCTTCTGTCT 702
;
RESULT 14
US-10-184-634-159
; Sequence 159, Application US/10184634
; Publication No. US20030068684A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C217
; CURRENT APPLICATION NUMBER: US/10/184,634
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 159
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-634-159
;
Query Match      82.8%; Score 53; DB 9; Length 1917;
Best Local Similarity 53.3%; Pred. No. 7,6;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
OY      2 CTXXXXCTXCTXXCT 16
Db      688 CTCATTCTTCTGTCT 702
;
RESULT 15
US-10-123-155-73
; Sequence 73, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
```

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; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C30
; CURRENT APPLICATION NUMBER: US/10/123,155
; PRIOR APPLICATION REMOVED - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 73
; LENGTH: 2120
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-155-73

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Query Match      82.8%; Score 53; DB 9; Length 2120;
Best Local Similarity 53.3%; Pred. No. 8.2;
Matches 8; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CTXXXCTXCTXXCT 16
   || || || ||
DB 1248 CTGTTCTCTCTCTCT 1262

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 Job time : 5.52632 secs